PATENT COOPERATION TREATY

PCT

REC'D 0 2 AUG 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABLETY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference PIA40206BIO	FOR FURTHER ACTION	See Form PCT/IPEA/416	<u>:</u>
International application No. PCT/KR2004/000841	International filing date(day/mol		-
International Patent Classification (IPC IPC7 B60H 3/00			
Applicant BIOTEL CO., LTD. et al			
Authority under Article 35 and 1 2. This REPORT consists of a tota 3. This report is also accompanied	transmitted to the applicant according to the according to the according to the applicant according to the a		
sheets of the de and/or sheets of Administrative sheets which su beyond the disc Supplemental E b. (sent to the Internation containing a sequence	escription, claims and/or drawings ontaining rectifications authorized lastructions). Instructions). Inpersede earlier sheets, but which the losure in the international applications. In all Bureau only) a total of (indicate listing and/or tables related thereto	which have been amended and are the basis for this reby this Authority (see Rule 70.16 and Section 607 of this Authority considers contain an amendment that go tion as filed, as indicated in item 4 of Box No. I and the tetype and number of electronic carrier(s)) 10. in computer readable form only, as indicated in the tion 802 of the Administrative Instructions).	the .
Box No. I Basis of the Box No. II Priority Box No. III Non-estate Box No. IV Lack of the Box No. V Reasoned citations at Box No. VI Certain of Box No. VII Cert	blishment of opinion with regard to unity of invention		cability;
Date of submission of the demand 11 NOVEMBER 200		18 JULY 2005 (18.07.2005)	
Name and mailing address of the IPE Korean Intellectual Prop 920 Dunsan-dong, Seo-g Republic of Korea Facsimile No. 82-42-472-7140	erty Office gu, Daejeon 302-701,	thorized officer LEE, Jin Uk dephone No. 82-42-481-5514	题

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/000841

Box No.	I Basis of the report	
	th regard to the language, this report is based on the international application in the language into this item. This report is based on translations from the original language into the following	
	which is the language of a translation furnished for the purposes of:	
	international search (under Rules 12.3 and 23.1(b))	
	publication of the international application (under Rule 12.4)	
	international preliminary examination (under Rules 55.2 and/or 55.3)	· · · · · · · · · · · · · · · · · · ·
to th	regard to the elements of the international application, this report is based on (repla e receiving Office in response to an invitation under Article 14 are referred to in this exed to this report): the international application as originally filed/furnished	
	the description:	as originally filed/furnished
ļ	pages received by this Authority on	as originally filed/furnished
	pages* received by this Authority on pages* received by this Authority on	
	pages	
	the claims: pages	as originally filed/furnished
		her with any statment) under Article 19
.:	pages* received by this Authority on	
]	pages* received by this Authority on	
	the drawings:	as originally filed/furnished .
	pages* received by this Authority on	
	pages* received by this Authority on	
3.	the sequence listing and/or any related table(s) - see Supplemental Box Relating to The amendments have resulted in the cancellation of: the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this re	
4.	made, since they have been considered to go beyond the disclosure as filed, as index (Rule 70.2(c)). the description, pages the claims, Nos.	cated in the Supplemental Box
* If ite	m 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/000841

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement				
Novelty (N)	Claims	1-22		 YES
	Claims			 NO
Inventive step (IS)	Claims	8-12, 15-22	 	. YES
•	Claims	1-7, 13, 14	•	 МО
Industrial applicability (IA)	Claims	1-22	 ·	 YES
	Claims			 NO .

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: KR 20-300243 Y1 (24 Dec. 2002)

D2: KR 96-24114 A (20 July 1996)

D3: JP 11-512989 A (09 Nov. 1999)

1. Novelty and Industrial Applicability

Claims 1-22 meet the criteria for novelty and industrial applicability set out in PCT Article 33(2) and (4).

2. Inventive Step

- 1. The condensate removal unit comprising an inlet, an outlet, and a drain port, as set forth in claim 1 of the present application, corresponds to the condensate water trap comprising an inlet pipe, an outlet pipe and a condensate water discharge pipe, as shown in Fig. 14 of D1. Therefore, it would be obvious to a person skilled in the art to derive the technical features of claim 1 from those of D1, thereby arriving at the invention claimed in claim 1.
- 2. The funnel-shaped condensate removal unit, as set forth in claim 2 of the present application, is the same as illustrated in Fig. 14 of D1. The valve for closing, as set forth in claim 3 of the present application, corresponds to the condensate water discharge valve of D1. The valve which is selectively opened, as set forth in claim 4, is obvious to a person skilled in the art. The controller and the controller panel, as set forth in claims 5 and 6, correspond to the controller and the controller panel of D1. Claim 7 is characterized by the condensate removal unit arranged near the oxygen discharge nozzle, and claim 13 is characterized by the transfer line of 1m or longer. Said technical features of claims 7 and 13 can be obtained merely by a design change or a numerical limitation which can be readily made according to the characteristics of the concerned apparatus.

(Continued on Supplemental Sheet.)

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box V.

Therefore, it would be obvious to a person skilled in the art to derive the technical features of claims 2-7 and 13 from the teaching of D1, thereby arriving at the invention claimed in said claims.

- 3. The first housing and the second housing as set forth in claim 14 correspond to the condensate water trap and the sterilizer of D1 which are connected to each other. Therefore, it would be obvious to a person skilled in the art to derive the technical features of claim 14 from the teaching of D1, thereby arriving at the invention claimed in claim 14.
- 4. However, the technical features disclosed in claims 8-12 and 15-22 are not disclosed in D1; nor are they obvious to a person skilled in the art:
- 5. D2 relates to a vapor-liquid separator of a freezing machine. D3 relates to a ventilator for a vehicle. The subject matters of said documents are different from the condensate removal unit as set forth in claims 1 and 14 of the present application.
- 6. In conclusion, the apparatus for supplying an oxygen-rich gas claimed in claims 1-7, 13 and 14 can be readily invented by a person skilled in the art, and the apparatus for supplying an oxygen-rich gas claimed in claims 8-12, 15-22 cannot be readily invented by a person skilled in the art.